This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., *January 30, 1915.*

MONTHLY LIST OF PUBLICATIONS.

[JANUARY, 1915.]

No publications are sold by the Department of Agriculture; therefore do not send money to this office.

Copies of any of the publications listed herein, except the Journal of Agricultural Research and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

When this department's supply is exhausted, publications can be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

COUPON SYSTEM REESTABLISHED.

For the convenience of the general public, coupons that are good until used in *exchange* for Government publications *sold* by the Superintendent of Documents may be purchased from his office in sets of 20 for $1.

REPORTS.

Description of Some Weevils Reared from Cotton in Peru. By W. Dwight Pierce, Entomological Assistant, Bureau of Entomology. Pp. 16, pls. 2, figs. 6. Contribution from the Bureau of Entomology. Jan. 25, 1915. (Report No. 102, Office of the Secretary.) Price, 5 cents.

SERIALS.

Journal of Agricultural Research. Vol. 3. No. 4. January, 1915. Contents: Observations on the Life History of Agrilus bilineatus. By Royal N. Chapman.—Effect of Dilution upon the Infectivity of the Virus of the Mosaic Disease of Tobacco. By H. A. Allard.—Moldiness in Butter. By Charles Thom and R. H. Shaw.—Susceptibility of Citrous Fruits to the Attack of the Mediterranean Fruit Fly. By E. A. Back and C. E. Pemberton.—Physiological Changes in Sweet Potatoes during Storage. By Heinrich Hasselbring and Lon A. Hawkins.—Three-Cornered Alfalfa Hopper. By V. L. Wildermuth. Pp. 283–362, pls. xxxviii–xliii, figs. 2. Price, 25 cents.

NOTE.—THE JOURNAL OF AGRICULTURAL RESEARCH will be distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being $2.50 per year, 12 numbers.

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SERVICE AND REGULATORY ANNOUNCEMENTS.

NOTE.—Contain information, instructions, and notices of a regulatory nature. Issued monthly by certain bureaus. Free distribution limited to individuals, firms, establishments, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, at 5 cents each.

Bureau of Animal Industry. December, 1914. Pp. 157–187. No. 92. Jan. 26, 1915.

Bureau of Chemistry. July, 1914. Supplement. Pp. 531–629. No. 7. Supplement. Jan. 11, 1915.

Bureau of Chemistry. August, 1914. Supplement. Pp. 637–686. No. 8. Supplement. Jan. 14, 1915.

Bureau of Chemistry. December, 1914. Pp. 753–755. No. 12. Jan. 25, 1915.

Federal Horticultural Board. December, 1914. Pp. 87–90. No. 11. Jan. 22, 1915.

Office of Markets. Pp. 1–11. No. 1. Jan. 19, 1915.

SOIL SURVEYS.

Soil Survey of Washington County, Texas. By A. H. Meyer, E. C. Eckmann, L. Cantrell, and L. V. Davis. Pp. 31, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

BULLETINS.

Correlating Agriculture with the Public School Subjects in the Southern States. By C. H. Lane, Chief Specialist in Agricultural Education, and E. A. Miller, Assistant in Agricultural Education. Pp. 41, figs. 9. Contribution from the Office of Experiment Stations. Jan. 21, 1915. (Department Bulletin 132.) Price, 10 cents.

This bulletin is prepared especially for the use of rural school teachers in the Southern States.

The Effect of the Cattle Tick Upon the Milk Production of Dairy Cows. By T. E. Woodward, W. F. Turner, Dairy Division, and Cooper Curtice, Zoological Division. Pp. 22, figs. 6. Contribution from the Bureau of Animal Industry. Jan. 16, 1915. (Department Bulletin 147.) Price, 5 cents.

Cows carrying ticks did not hold up so well in milk flow as the cows kept free from ticks and did not increase their flow of milk when the feed was increased, as did the tick-free cows.

Utilization of the Fish Waste of the Pacific Coast for the Manufacture of Fertilizer. By J. W. Turrentine, Scientist in Soil Laboratory Investigations. Pp. 71, pls. 6. Contribution from the Bureau of Soils. Jan. 23, 1915. (Department Bulletin 150.) Price, 15 cents.

This bulletin discusses the utilization of fish waste in the salmon-canning and similar industries on the Pacific Coast as a source of fertilizer material.

Forest Planting in the Eastern United States. By C. R. Tillotson, Forest Examiner. Pp. 38, pls. 7. Contribution from the Forest Service. Jan. 28, 1915. (Department Bulletin 153.) Price, 10 cents.

This bulletin is suited to conditions in Iowa, Illinois, Indiana, Michigan, Ohio, Pennsylvania, New Jersey, New York, and all the New England States.

The Life History of the Lodgepole Pine in the Rocky Mountains. By D. T. Mason, Assistant District Forester, District 1. Pp. 35, pls. 5, fig. 1. Contribution from the Forest Service. Jan. 14, 1915. (Department Bulletin 154.) Price, 10 cents.

The lodgepole region, commercially speaking, is very restricted, being lumbered extensively only in Montana, Wyoming, Colorado, and northeast Utah, although its botanical range extends from the Yukon Territory, south through the Cascade, Sierra Nevada, and San Jacinto Mountains to Lower California, and through the main range of the Rocky Mountains to New Mexico.

Wireworms Attacking Cereal and Forage Crops. By J. A. Hyslop, Entomological Assistant, Cereal and Forage Insect Investigations. Pp. 34, figs. 8. Contribution from the Bureau of Entomology. (Professional Paper.) Jan. 27, 1915. (Department Bulletin 156.) Price, 5 cents.

Describes a number of species of wireworms and suggests remedies for their control.

Tillage and Rotation Experiments at Nephi, Utah. By P. V. Cardon, Scientific Assistant, Office of Cereal Investigations. Pp. 45, figs. 21. Contribution from the Bureau of Plant Industry. Jan. 21, 1915. (Department Bulletin 157.) Price, 5 cents.

This bulletin should be of interest to agronomists and to dry-land farmers, particularly in the Great Basin area.

Soils of the Sassafras Series. By J. A. Bonsteel, Scientist in Soil Survey. Pp. 52, pls. 9, fig. 1. Contribution from the Bureau of Soils. Jan. 14, 1915. (Department Bulletin 159.) Price, 15 cents.

The Atlantic Coastal Plain from the southern end of the Chesapeake Bay to the western end of Long Island contains the soils of this series, and it is to farmers within this region living on the low-lying terraces which border the chief tidewater estuaries and the ocean that this bulletin is of special interest.

Cactus Solution as an Adhesive in Arsenical Sprays for Insects. By M. M. High, Entomological Assistant, Truck Crop and Stored Product Insect Investigations. Pp. 20. Contribution from the Bureau of Entomology. (Professional Paper.) Jan. 22, 1915. (Department Bulletin 160.) Price, 5 cents.

This bulletin describes the use of cactus solution as an adhesive in the application of arsenical sprays against the belted cucumber beetle. It is applicable to regions where prickly pear is easily obtainable for the treatment of insects of related habits, such as the striped and twelve-spotted cucumber beetles, etc.

Horticultural Experiments at the San Antonio Field Station, Southern Texas. By Stephen H. Hastings, Farm Superintendent, and R. E. Blair, Scientific Assistant, Office of Western Irrigation Agriculture. Pp. 26, figs. 8. Contribution from the Bureau of Plant Industry. Jan. 13, 1915. (Department Bulletin 162.) Price, 5 cents.

This bulletin indicates the selections and cultural methods best adapted to successful fruit growing in the vicinity of San Antonio and is of interest to the inhabitants of that region.

A Field Test for Lime-Sulphur Dipping Baths. By Robert M. Chapin, Senior Biochemist, Biochemic Division. Pp. 7, fig. 1. Contribution from the Bureau of Animal Industry. Jan. 12, 1915. (Department Bulletin 163.) Price, 5 cents.

This bulletin describes a portable testing outfit for estimating the strength of lime-sulphur dipping baths; it is of interest to makers and users of such baths, as well as to officials charged with the enforcement of dipping regulations.

Field Test With a Toxic Soil Constituent: Vanillin. By J. J. Skinner, Scientist in Soil Fertility Investigations. Pp. 9, pls. 4. Contribution from the Bureau of Soils. (Professional Paper.) Jan. 30, 1915. (Department Bulletin 164.) Price, 5 cents.

The effect upon plant growth of vanillin, a toxic soil constituent, as demonstrated in pot experiments and field tests, is described in this bulletin.

Ophthalmic Mallein for the Diagnosis of Glanders. By John R. Mohler, Assistant Chief of Bureau, and Adolph Eichhorn, Senior Bacteriologist, Pathological Division. Pp. 11, pl. 1. Contribution from the Bureau of Animal Industry. (Professional Paper.) Jan. 22, 1915. (Department Bulletin 166.) Price, 5 cents.

This bulletin points out the advantageous and satisfactory use of the ophthalmic mallein test in the diagnosis of glanders and the necessity for prompt action on reactors to this test in eradicating this disease. Of interest to veterinarians and State live-stock sanitary authorities.

Contributions Toward a Monograph of the Scolytid Beetles. II. Preliminary Classification of the Superfamily Scolytoidea. By A. D. Hopkins, In Charge of Forest Insect Investigations. Pp. iv+165–232, pls. 8, figs. 17. Jan. 9, 1915. (Technical Series 17, Part 2, Bureau of Entomology.) Price, 20 cents.

Inventory of Seeds and Plants Imported by the Office of Foreign Seed and Plant Introduction during the period from October 1 to December 31, 1912. Pp. 60, pls. 5. Jan. 23, 1915. (Bureau of Plant Industry, Inventory No. 33. Nos. 34340 to 34727.) Price, 15 cents.

Contents and Index to Bulletin 116, Bureau of Entomology. Pp. vii+111–117. Jan. 18, 1915. Price, 5 cents.

Federal Legislation, Regulations, and Rulings Affecting Agricultural Colleges and Experiment Stations. (Revised to Dec. 21, 1914.) Pp. 31. Jan. 15, 1915. (Office of Experiment Stations.)

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Farmers' Bulletins.

Breeds of Beef Cattle. By W. F. Ward, Senior Animal Husbandman in Beef Cattle Investigations, Animal Husbandry Division. Pp. 23, figs. 18. Contribution from the Bureau of Animal Industry. Jan. 21, 1915. (Farmers' Bulletin 612.)

The distinguishing characteristics of the several breeds of beef and of dual-purpose cattle are presented in this bulletin. The information is of interest to cattle raisers desirous of securing the breed best suited to a particular locality or to certain conditions.

Ice Houses and the Use of Ice on the Dairy Farm. By John T. Bowen, Technologist, and Guy M. Lambert, Dairyman, Dairy Division. Pp. 24, figs. 11. Contribution from the Bureau of Animal Industry. Jan. 16, 1915. (Farmers' Bulletin 623.)

The use of ice on the dairy farm for the keeping of milk and cream in the best marketable condition is discussed in this bulletin. Plans and specifications for ice houses are given. The bulletin is applicable to dairy sections where natural ice is obtainable.

Growing Peaches: Sites, Propagation, Planting, Tillage, and Maintenance of Soil Fertility. By H. P. Gould, Pomologist in Charge of Fruit-Production Investigations, Office of Horticultural and Pomological Investigations. Pp. 24, figs. 7. Contributions from the Bureau of Plant Industry. Jan. 23, 1915. (Farmers' Bulletin 631.)

This bulletin is intended for general distribution. Farmers' Bulletins Nos. 632 and 633 continue the general subject of peach growing and treat of other fundamental orchard operations.

Growing Peaches: Pruning, Renewal of Tops, Thinning, Interplanted Crops, and Special Practices. By H. P. Gould, Pomologist in Charge of Fruit-Production Investigations. Pp. 23, figs. 19. Contribution from the Bureau of Plant Industry. Jan. 15, 1915. (Farmers' Bulletin 632.)

This bulletin is intended for general distribution.

The Grasshopper Problem and Alfalfa Culture. By F. M. Webster, In Charge of Cereal and Forage Insect Investigations. Pp. 10, figs. 8. Contribution from the Bureau of Entomology. Jan. 25, 1915. (Farmers' Bulletin 637.)

This bulletin describes the species of grasshoppers that work special injury to the alfalfa fields and suggests methods for their destruction. It will be of interest wherever alfalfa is threatened by an attack from these insects.

Laboratory Exercises in Farm Mechanics for Agricultural High Schools. By Daniels Scoates, Professor of Agricultural Engineering, Mississippi Agricultural and Mechanical College. Pp. 26, figs. 26. Contribution from the Office of Experiment Stations. Jan. 23, 1915. (Farmers' Bulletin 638.)

This bulletin is intended primarily for the use of teachers of high-school agriculture.

Blackberry Culture. By George M. Darrow, Scientific Assistant, Office of Horticultural and Pomological Investigations. Pp. 13, figs. 8. Contribution from the Bureau of Plant Industry. Jan. 29, 1915. (Farmers' Bulletin 643.)

This bulletin is of interest to blackberry growers all over the United States.

Publications of the Weather Bureau.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

National Weather and Crop Bulletin, January, 1915, reporting temperature, rainfall, and crop conditions throughout the United States. (Issued weekly, on Tuesday, April to October; monthly remainder of year.) Price, 25 cents a year.

Snow and Ice Bulletins for January 5, 12, 19, 26. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

Jos. A. Arnold,
Editor and Chief Division of Publications.

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1915